

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/004767

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 H05K7/20 H02G9/10

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 H05K HO2G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 461 952 A (ROBERT M. DECKER ET AL) 19 August 1969 (1969-08-19)	1,2, 13-17, 20,21, 23-27, 36,37
Y	the whole document	2,6,7
Y	----- US 6 304 444 B1 (COMBS CHARLES D ET AL) 16 October 2001 (2001-10-16) the whole document	18,19 2,6,7
X	----- US 4 564 061 A (RAUTH ET AL) 14 January 1986 (1986-01-14) the whole document	28-30
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

14 April 2005

Date of mailing of the international search report

22/04/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 625 804 A (PATCH ARTHUR H ET AL) 20 January 1953 (1953-01-20) the whole document	1,13,21
A	US 2 247 936 A (BISHOP WALTER M) 1 July 1941 (1941-07-01) the whole document	3-5
A	US 5 956 230 A (GRAJEWSKI ET AL) 21 September 1999 (1999-09-21) the whole document	8-12
Y		18,19
A	WO 00/62590 A (ECI TELECOM LTD; BERGER THERMAL RESEARCH LTD; BERGER, ABRAHAM; HAZAN,) 19 October 2000 (2000-10-19) cited in the application the whole document	1,13,23, 28,36

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